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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE: Application of Herve Jean-Clement COSTE et al.

Serial No.: 09/936,506

Art Unit: 1635

Filing Date: December 20, 2001

Examiner:

For: *Method to Improve Translation of  
Polypeptides by Using Untranslated  
Regions from Heat-shock Proteins*

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Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Applicants request that the references identified on Form PTO-1449 appended hereto be considered by the Examiner and officially made of record in accordance with the provisions of 37 CFR 1.97

- ☒ Copies of the references listed on the attached Form PTO-1449 as item nos. 3-28 are enclosed on CD.  
☐ Copies of the references were submitted in parent application Serial No. \_\_\_\_\_. (37 CFR 1.98(d))  
☐ A copy of the International Search Report which issued on International Application No. \_\_\_\_\_ is submitted herewith. All of the publications cited in the International Search Report are listed on the attached form PTO-1449 and Applicants understand that copies have been supplied to the U.S. Patent Office by the International Bureau.

A. ☒ The Information Disclosure Statement submitted herewith is being filed within three months of the filing date of the above application or date of entry into the national stage of an international application or before the mailing date of a first Office action on the merits, whichever event occurs last. 37 CFR 1.97(b).

OR

☐ The Information Disclosure Statement submitted herewith is being filed before the mailing of a first office action after the filing of a Request For Continued Examination under 37 C.F.R. 1.114 (37 C.F.R. 1.97(b)(4)).

B. ☐ The Information Disclosure Statement transmitted herewith is being filed **after** three months of the filing date of the above application or the date of entry into the national stage as set forth in § 1.491 of an international application or after the mailing date of the first Office Action on the merits, whichever event occurred last, but **before** the mailing date of either:  
(1) a final action under § 1.113 or  
(2) a notice of allowance under § 1.311,  
whichever occurs first.

CERTIFICATE OF MAILING (37 CFR 1.8)

I hereby certify that this paper (along with any referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450.

Date: November 10, 2003

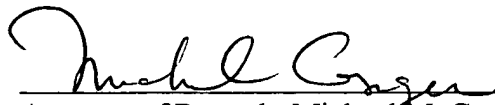
Marjorie J. Pfeiffer  
Marjorie J. Pfeiffer

- ☐ Applicant hereby certifies that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- ☐ Applicant elects the option to pay the fee set forth in 37 CFR 1.17(p) for submission of an Information Disclosure Statement under § 1.97(c) (\$180.00).
- C. ☐ The Information Disclosure Statement transmitted herewith is being filed **after** a final action under § 1.113, or a notice of allowance under § 1.311, whichever occurs first, but before the payment of the issue fee. Also enclosed is a copy of the International Search Report which Issued on International Publication No.

In accordance with the requirements of 37 CFR 1.97(d):

- ☐ Applicant hereby certifies that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement. **[or]**
- ☐ Applicant hereby certifies that no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to my knowledge after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known to any individual designated in § 1.56(c) more than three months prior to the filing of this statement; and
- ☐ The petition fee set forth in § 1.17(i)(1) (\$180.00) is submitted herewith.
- ☒ Please charge any required fees to Deposit Account No.07-1392.
- ☐ A duplicate copy of this paper is attached.

Respectfully Submitted,

  
\_\_\_\_\_  
Attorney of Record: Michael M. Conger  
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Date: Nov 7, 2023  
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<b>FORM PTO-1449</b> <b>INFORMATION DISCLOSURE STATEMENT</b>				<b>ATTORNEY DOCKET NO.</b> PF3623USw		<b>SERIAL NO.</b> 09/936,506	
				<b>APPLICANT</b> Herve Jean-Clement COSTE et al.			
				<b>FILING DATE</b> December 20, 2001		<b>GROUP</b> 1635	
<b>U.S. PATENT DOCUMENTS</b>							
Examiner Initials		Patent Number	Issue Date	Name	Class	Subclass	Filing Date If Appropriate
	1.	5,371,015	12/06/1994	Sanford et al.			
	2.	5,697,901	12/16/1997	Eriksson			
Continue on page ____							
<b>FOREIGN PATENT DOCUMENTS</b>							
		Document Number	Publication Date	Country	Class	Subclass	Translation Yes   No
	3.	WO 88/00239	01/14/1988	WIPO			
Continue on page ____							
<b>OTHER DOCUMENTS (Including Author, Title, Journal-Date, Page Number, Etc.)</b>							
	4.	Bonner et al., "The use of promoter fusions in Drosophila genetics: isolation of mutations affecting the heat shock response," <i>Cell</i> 37:979-991 (Jul. 1984).					
	5.	Chiswell et al., "Phage antibodies: will new 'coliclonal' antibodies replace monoclonal antibodies?," <i>Tibtech</i> 10:80-84 (Mar. 1992).					
	6.	DiNocera et al., "Transient expression of genes introduced into cultured cells of <i>Drosophila</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 80:7095-7098 (Dec. 1983).					
	7.	Geisow, "Improved selection systems for man-made antibodies," <i>Tibtech</i> 10:75-76 (Mar. 1992).					
	8.	Gray et al., "Iron regulatory protein prevents binding of the 43S translation pre-initiation complex to ferritin and eALAS mRNAs," <i>EMBO J.</i> 13(16):3882-3891 (1994).					
	9.	Grosz et al., "Partial and complete sequences of Bovine HSP70-1 and HSP70-2 genes," Unpublished, Accession U02892, NID g414974					
	10.	Hultmark et al., "Translational and transcriptional control elements in the untranslated leader of the heat-shock gene <i>hsp22</i> ," <i>Cell</i> 44:429-438 (Feb. 1986).					
	11.	Hunt et al., "Characterization and sequence of a mouse <i>hsp70</i> gene and its expression in mouse cell lines," <i>Gene</i> 87:199-204 (1990).					
	12.	Illum et al., "Drug delivery," <i>Current Opinion in Biotechnology</i> 2:254-259 (1991).					
	13.	Ingolia et al., "Sequence of three copies of the gene for the major Drosophila heat shock induced protein and their flanking regions," <i>Cell</i> 21:669-679 (Oct. 1980).					
	14.	Kozac, "Structural features in eukaryotic mRNAs that modulate the initiation of translation," <i>J. Biol. Chem.</i> 266(30):19867-19870 (Oct. 1991).					
	15.	Kozac, "An analysis of vertebrate mRNA sequences: intimations of translational control," <i>J. Cell Biol.</i> 115(4):887-903 (Nov. 1991).					
	16.	Langer, "New methods of drug discovery," <i>Science</i> 249:1527-1533 (Sep. 1990).					
Continue on page <u>2</u>							
EXAMINER					DATE CONSIDERED		
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.							

**FORM PTO-1449**  
**INFORMATION DISCLOSURE STATEMENT**
**ATTORNEY DOCKET NO.**  
 PF3623USw

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**U.S. PATENT DOCUMENTS**

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Continue on page \_\_\_\_

**FOREIGN PATENT DOCUMENTS**

		Document Number	Publication Date	Country	Class	Subclass	Translation Yes   No

Continue on page \_\_\_\_

**OTHER DOCUMENTS (Including Author, Title, Journal-Date, Page Number, Etc.)**

	17.	Lindquist et al., "Selective translation and degradation of heat-shock messenger RNAs in <i>Drosophila</i> ," <i>Enzyme</i> <b>44</b> :147-166 (1990).
	18.	McGarry et al., "The preferential translation of <i>Drosophila</i> hsp70 mRNA requires sequences in the untranslated leader," <i>Cell</i> <b>42</b> :903-911 (Oct. 1985).
	19.	Mestril et al., "Isolation of a novel inducible rat heat-shock protein (HSP70) gene and its expression during ischaemia/hypoxia and heat shock," <i>Biochem. J.</i> <b>298</b> (pt 3):561-569 (1994).
	20.	Morimoto et al., "Organization, nucleotide sequence, and transcription of the chicken HSP70 gene," <i>J. Biol. Chem.</i> <b>261</b> :12692-12699 (1986).
	21.	Myers et al., "Optimal alignments in linear space," <i>CABIOS</i> <b>4</b> (1):11-17 (1988).
	22.	Sachs et al., "Starting at the beginning, middle, and end: translation initiation in eukaryotes," <i>Cell</i> <b>89</b> (6):831-838 (Jun. 1997).
	23.	Sainis et al., "The hsc70 gene which is slightly induced by heat is the main virus inducible member of the hsp70 gene family," <i>FEBS Lett.</i> <b>355</b> (3):282-286 (Dec. 1994).
	24.	Schiller et al., "Cis-acting elements involved in the regulated expression of a human <i>HSP70</i> gene," <i>J. Mol. Biol.</i> <b>203</b> :97-105 (1988).
	25.	Stripecke et al., "Proteins binding to 5' untranslated region sites: a general mechanism for translational regulation of mRNAs in human and yeast cells," <i>Mol. Cell. Biol.</i> <b>14</b> (9):5898-5909 (Sep. 1994).
	26.	Ting et al., "Human gene encoding the 78,000-Dalton glucose-regulated protein and its pseudogene: structure, conservation, and regulation," <i>DNA</i> <b>7</b> (4):275-286 (1988). (GenBank: g183644)
	27.	Verme et al., "Gene therapy - promises, problems and prospects," <i>Nature</i> <b>389</b> (6648):239-242 (Sep. 1997).
	28.	Zuker et al., "'Well-determined' regions in RNA secondary structure prediction: analysis of small subunit ribosomal RNA," <i>Nucleic Ac. Res.</i> <b>23</b> (14):2791-2798 (1995).

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